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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/620,676

07/16/2003

Alex Ning

SNX 0304

9643

7590

10/05/2004

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EXAMINER

SUGARMAN, SCOTT J

ART UNIT

PAPER NUMBER

2873

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/620,676

Applicant(s)

NING, ALEX

Examiner

Scott J. Sugarman

Art Unit

2873

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5-9, 11, 12 and 14-20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of: .
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 5-9, 11, 12, and 14-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohshita. Ohshita teaches a lens assembly having a focal length f_0 having a first lens element (L1) with focal length $f_1 > 0$ (71) having a first and second surfaces (1, 2), the first surface (1) being convex and facing object space, a second lens element (L2) having a first and second surface (3, 4), the first surface (3) being a concave surface facing the first lens element (L1) second surface (2), a third lens element having a first and second surface (5, 6) and a positive power, the first surface (5) being convex facing the second lens (L2) element second surface (4) having a radius of r_1 (49.5272), the third lens element second surface having a radius of r_2 (-56.8243), the third lens element's first and second surfaces being shaped such that $|r_2| > |r_1|$, the first, second and third lens elements being shaped and coaxially positioned on an optical axis to obtain a ratio of f_1/f_0 such that $0.5 < f_1/f_0 < 2.0$ (Embodiment 1=0.71). Ohshita does not have a second surface (4) of the second lens element (L2) that is aspheric, but does teach that the first surface (3) of the second lens element is aspheric (col. 5, lines 53-55). The Examiner takes Official Notice that it is well known in the

Art Unit: 2873

optical arts to place a known surface on either side of a lens. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to put the aspheric surface on of Ohshita on the image side surface (4) of the second lens element (L2), since placing a known surface on the opposite side of a lens element is considered well known. Ohshita does teach using a glass material for the lens elements (col. 1, lines 14-20). The first lens element (L1) second surface (2) has a concave shape (see Fig. 1).

Allowable Subject Matter

Claims 4, 10 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art does not teach or suggest a planar surface on the second surface (6) of the third lens element (L3) or the numerical conditions of claim 13.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Takato ('065) or ('051) or Sakamoto does teach some of the recited lens structure, but do not meet the recited numerical limitations.

Art Unit: 2873

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott J. Sugarman whose telephone number is (571)272-2340.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Scott J. Sugarman
Primary Examiner
Art Unit 2873

sjs
September 29, 2004